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Docket No.: D0590.70003US00  
(PATENT)

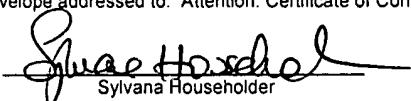
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patentee: Geert Plaetinck et al.  
Patent No.: 7,005,423  
Issue Date: February 28, 2006  
Serial No.: 09/347311  
Confirmation No.: 3674  
Filed: July 2, 1999  
For: CHARACTERIZATION OF GENE FUNCTION USING DOUBLE  
STRANDED RNA INHIBITION  
  
Examiner: Woitach, Joseph T.  
Art Unit: 1632

**Certificate of Mailing Under 37 CFR 1.8(a)**

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to: Attention: Certificate of Correction Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: October 6, 2006



Sylvana Householder

**REQUEST FOR CERTIFICATE OF CORRECTION  
PURSUANT TO 37 CFR 1.322**

Attention: Certificate of Correction Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

*Certificate  
OCT 13 2006  
of Correction*

Dear Sir:

Patentee respectfully requests the correction of errors found in the printing of the face of the patent in the above-captioned patent. Specifically, the Foreign Application Priority Data was not included on the face of the patent. The foreign application priority data is as follows: GB 9814536.0, filed 07-03-1998 and GB 9827152.1, filed 12-09-1998.

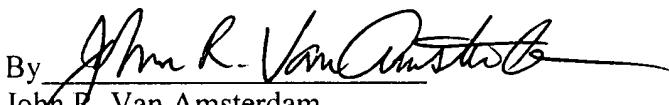
Patentee points out that the corrections requested do not involve change in the patent that constitutes new matter or would require reexamination, and therefore, respectfully requests that a

OCT 16 2006

certificate of correction be issued. Patentee encloses a copy of the page of the issued patent with the foreign application priority data highlighted in red. Since the error was made by the Patent Office, it is respectfully submitted that no fee is due. However, if the Examiner deems a fee necessary, the fee may be charged to the account of the undersigned, Deposit Account No. 23/2825. Should any questions arise concerning the foregoing, please contact the undersigned at the telephone number listed below.

Dated: October 6, 2006

Respectfully submitted,

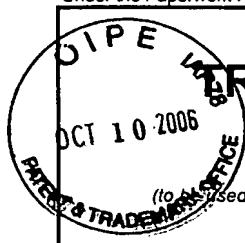
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Docket No. D0590.70003US00  
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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	Patent#: 7,005,423
Filing Date	Issued: February 28, 2006
First Named Inventor	Geert Plaetinck
Art Unit	1632
Examiner Name	J. T. Woitach
Total Number of Pages in This Submission	Attorney Docket Number D0590.70003US00

## ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	Request for Certificate of Correction Certificate of Correction Copy of face page of issued Patent No. 7,005,423 with changes indicated in red Return Receipt Postcard
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts/ Incomplete Application	<input type="checkbox"/> Remarks	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	WOLF, GREENFIELD & SACKS, P.C.		
Signature			
Printed name	John R. Van Amsterdam		
Date	October 6, 2006	Reg. No.	40,212

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UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 7005423  
APPLICATION NO. : 09/347311  
ISSUE DATE : February 28, 2006  
INVENTOR(S) : Geert Plaetinck et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the face of the patent, please add the Foreign Application Priority Data as follows:

**(30) Foreign Application Priority Data**

July 3, 1998 GB 9814536.0  
Dec. 9, 1998 GB 9827152.1

**MAILING ADDRESS OF SENDER (Please do not use customer number below):**

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(12) **United States Patent**  
**Plaetinck et al.**

(10) Patent No.: **US 7,005,423 B1**  
(45) Date of Patent: **Feb. 28, 2006**

(54) **CHARACTERIZATION OF GENE FUNCTION  
USING DOUBLE STRANDED RNA  
INHIBITION**

(75) Inventors: **Geert Plaetinck, Zwynaarde (BE);  
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Katherine Mortier, Zwynaarde (BE);  
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(73) Assignee: **Devgen NV, Ghent-Zwynaarde (BE)**

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/347,311**

(22) Filed: **Jul. 2, 1999**

(51) **Int. Cl.**

**A61K 31/70** (2006.01)  
**C07H 21/02** (2006.01)  
**C07H 21/04** (2006.01)  
**CI2Q 1/68** (2006.01)  
**CI2N 5/00** (2006.01)

(52) U.S. Cl. .... **514/44; 536/23.1; 536/24.5;  
435/6; 435/325**

(58) **Field of Classification Search** .... **536/23.1,  
536/24.5; 514/44; 435/6, 325, 455; 800/84**  
 See application file for complete search history.

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**Primary Examiner—Joseph Woitach**

(74) **Attorney, Agent, or Firm—Wolf, Greenfield & Sacks, P.C.**

(57) **ABSTRACT**

There is provided a method of identifying DNA responsible for conferring a particular phenotype in a cell which method comprises a) constructing a cDNA or genomic library of the DNA of the cell in a suitable vector in an orientation relative to a promoter(s) capable of initiating transcription of the cDNA or DNA to double stranded (ds) RNA upon binding of an appropriate transcription factor to the promoter(s), b) introducing said library into one or more of the cells comprising the transcription factor, and c) identifying and isolating a particular phenotype of the cell comprising the library and identifying the DNA or cDNA fragment from the library responsible for conferring the phenotype. Using this technique it is also possible to assign a function to a known DNA sequence by a) identifying a homologue(s) of the DNA sequence in a cell, b) isolating the relevant DNA homologue(s) or a fragment thereof from the cell, c) cloning the homologue or fragment thereof into an appropriate vector in an orientation relative to a suitable promoter(s) capable of initiating transcription of dsRNA from the DNA homologue or fragment upon binding of an appropriate transcription factor to the promoter(s), and d) introducing the vector into the cell from step a) comprising the transcription factor.

**37 Claims, 19 Drawing Sheets**

*(30) Foreign Application Priority Data*

*July 3, 1998 (GB) 9814536.0*

*Dec. 9, 1998 (GB) 9827152.1*